







US005476361A

# United States Patent [19] Uno

[11] **Patent Number:** 5,476,361  
[45] **Date of Patent:** Dec. 19, 1995

## [54] **DEVICE FOR PILING BUNDLES OF SHEETS**

[76] **Inventor:** Tadao Uno, 1-84, Matsugaoka  
1-chome, Chigasaki-shi, Kanagawa-ken,  
Japan

[21] **Appl. No.:** 169,981

[22] **Filed:** Dec. 16, 1993

### **Related U.S. Application Data**

[62] Division of Ser. No. 991,967, Dec. 17, 1992, abandoned.

### **Foreign Application Priority Data**

Dec. 26, 1991 [JP] Japan ..... 3-359652

[51] **Int. Cl.<sup>6</sup>** ..... B65G 57/06

[52] **U.S. Cl.** ..... 414/790.3; 198/431; 414/794.2;  
414/794.7; 414/926

[58] **Field of Search** ..... 198/418.1, 431,  
198/436, 457, 468.1; 414/790.3, 791.1,  
794.2, 794.7, 926, 790.9

## [56] **References Cited**

### **U.S. PATENT DOCUMENTS**

2,769,378 11/1956 Jochem .  
3,054,516 9/1962 Joa .  
4,249,844 2/1981 Lampe et al. .  
4,944,138 7/1990 Aiuola et al. .... 53/540

*Primary Examiner*—Michael S. Huppert

*Assistant Examiner*—Janice L. Krizek

*Attorney, Agent, or Firm*—Wenderoth, Lind & Ponack

## [57] **ABSTRACT**

A plurality of sheet-bundle piling lanes are disposed in perpendicular relation with respect to a common sheet-bundle feed lane for gradually feeding sheet-bundles. At a communicating portion between the sheet-bundle feed lane and each sheet-bundle piling lane, a sheet-bundle take-in lever, for taking the sheet-bundles from the former lane to the latter lane, is disposed. Blocks of bundles of sheets that are piled up are formed at each sheet-bundle piling lane.

**2 Claims, 5 Drawing Sheets**

